FIG. 1

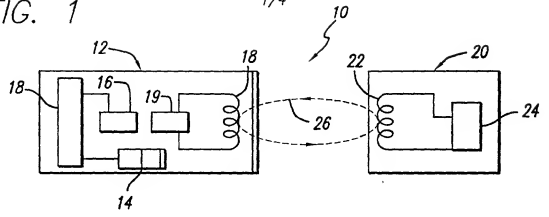


FIG. 2

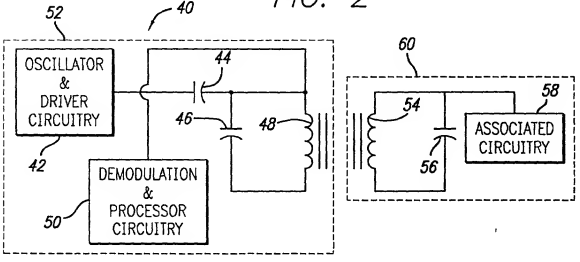


FIG. 3

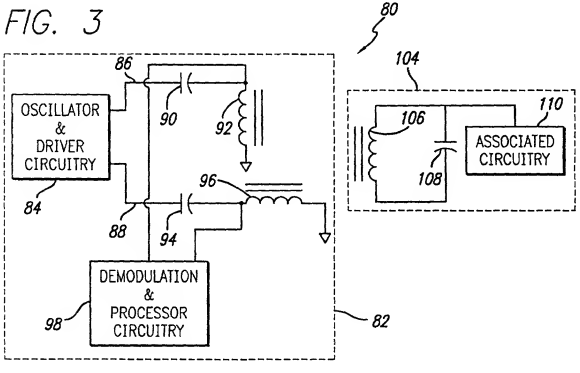
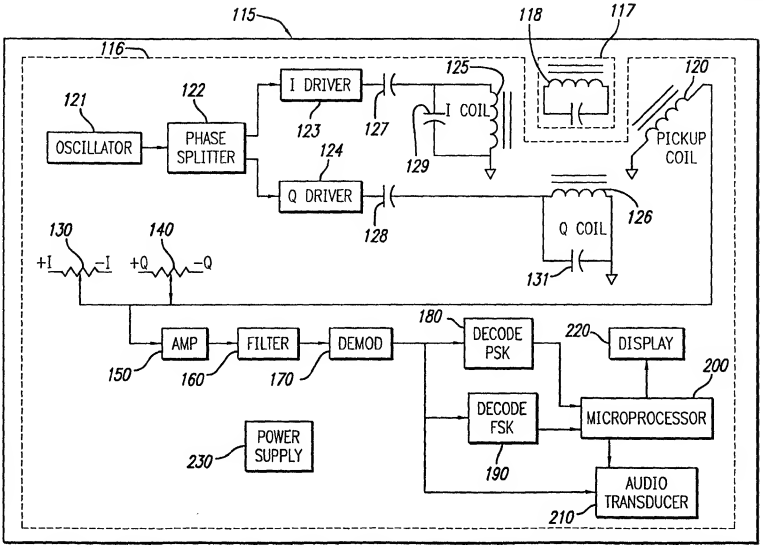


FIG. 4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120
121
122
125
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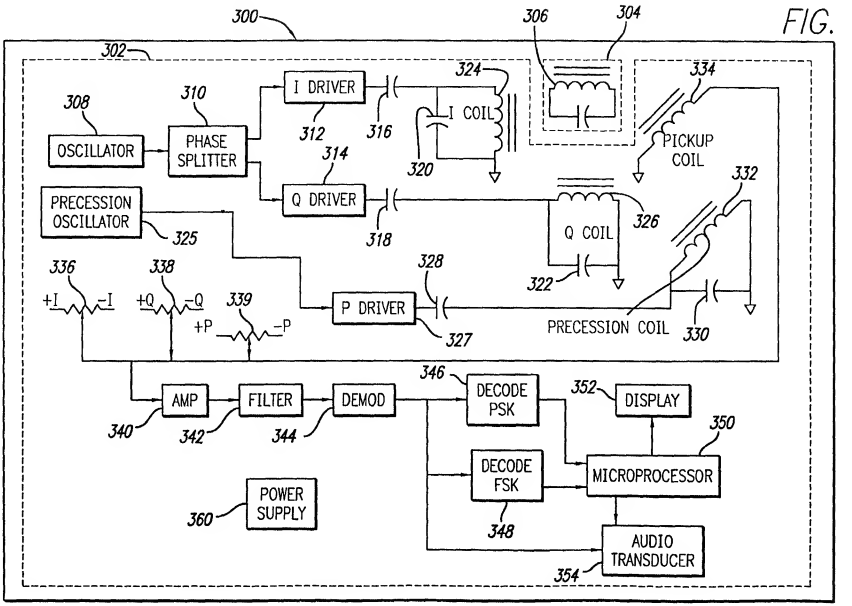
123
127
I COIL
129
PICKUP COIL
OSCILLATOR
PHASE SPLITTER
124
Q DRIVER
128
Q COIL
126
131
130
140
+I
-I
+Q
-Q
AMP
FILTER
DEMOD
150
160
170
180
DECODE PSK
220
DISPLAY
200
DECODE FSK
MICROPROCESSOR
190
POWER SUPPLY
230
AUDIO TRANSDUCER
210

FIG. 5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320
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OSCILLATOR
PHASE SPLITTER
314
Q DRIVER
318
332
PRECESSION OSCILLATOR
325
326
Q COIL
322
336
338
328
+I
-I
+Q
-Q
339
+P
-P
P DRIVER
327
PRECESSION COIL
330
346
AMP
FILTER
DEMOD
DECODE PSK
352
DISPLAY
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MICROPROCESSOR
POWER SUPPLY
360
348
AUDIO TRANSDUCER
354

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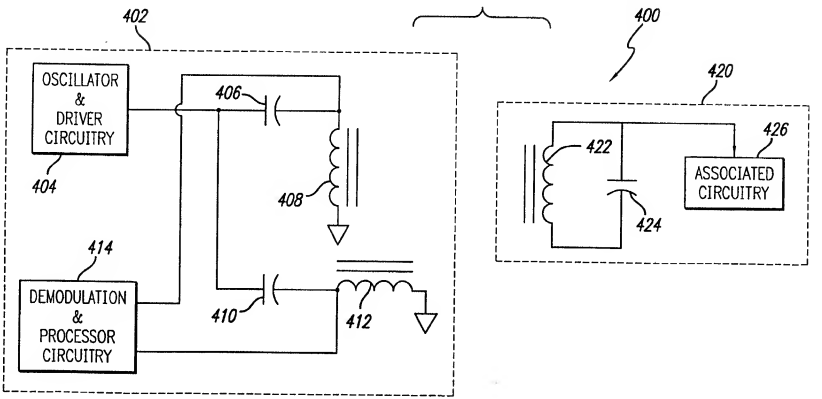
FIG. 6